

United States  
Department of Interior  
Geological Survey

**Multichannel Seismic-Reflection Profiles Collected in 1980 in  
the Northern Bering Sea**

By  
Michael S. Marlow, Alan K. Cooper, Gregory L. Smith,  
and Thomas E. Chase

US Geological Survey  
Open File Report  
82-1090

This report is preliminary and has not been review for conformity with Geological Survey editorial standards and stratigraphic nomenclature.

Any use of trade names is for descriptive purposes only and does not constitute endorsement by the U.S. Geological Survey.

During 1980 (cruise L6-80-BS) the U.S. Geological Survey collected 1800 km of 24-fold seismic-reflection data in the Gulf of Anadyr and across Navarin Basin (Fig. 1). The profiles were collected on the R/V S. P. Lee using a sound source of five air guns totaling 1,324 in<sup>3</sup>. The recording equipment consists of a 24-channel streamer, 2400 meters long, with a group interval of 100 m, and a GUS (Global Universal Science) Model 4200 digital recording system. Shot records were recorded at a 2 millisecond sample rate, and later processes at a 4 millisecond rate. Navigational control of the survey was by satellite fixes integrated with Loran C (Rho-Rho) and Doppler-sonar-bottom-track navigation.

The seismic-reflection records vary from 10 to 12 seconds in length depending upon water depth and geologic structure. The first 10 seconds of the shot records were edited, stacked, deconvolved, filtered, and displayed on an electrostatic plot.

Copies of the data are available through the National Geophysical Data Center, NOAA/NESDIS/NGDC, 325 Broadway E/GC3, Boulder, CO 80305. Telephone 303-497-6338.

